

See

the Industry's

Widest Selection

of Sockets,

Carriers & Contactors

at



**BOOTH 1011
NEP/CON '66**

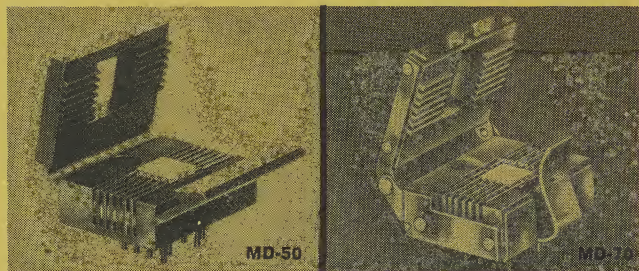
BARNES *Quik/Sert* SOCKETS

THE MOST ADVANCED LINE OF SOCKETS, CARRIERS AND CONTACTORS FOR TRANSISTORS, I.C.'s AND OTHER MINIATURE DEVICES

For production, test, aging and breadboarding applications, Barnes offers more than 3,000 standard sizes, configurations

and materials . . . designed for fast mounting, rapid device insertion, long life and high contact reliability.

Quik/Sert SERIES MD "FLIP-TOP" SOCKETS FOR ALL STANDARD I.C. FLAT PACKAGES



Simple, fast loading; snap open, insert I.C., close and latch socket. Forces on leads uniformly distributed. No strain on body/lead junction. Barriers between leads give positive separation and automatic device positioning. Sockets can be hand wired, dip soldered, wire wrapped, or used as a carrier with RD-86 mating connector. MD-100 Series is designed to accommodate new flat packs that may be developed, without substantial tool charges.

BODY: MD-50—filled polypropylene for operation to 125°C; MD-70 to 175°C; MD-100 to 150°C or 200°C.

PACKAGES ACCEPTED: MD-51 & MD-71— $\frac{1}{8}$ "x $\frac{1}{4}$ " package; MD-55 & MD-75— $\frac{1}{4}$ "x $\frac{1}{4}$ " & $\frac{1}{4}$ "x $\frac{3}{8}$ " packages. All accept up to 14 lead devices, flat leads up to 0.025" wide. MD-100 accepts $\frac{1}{4}$ "

to 1" package widths and up to 40 leads.

CONTACTS: Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms.

LIFE: Up to 50,000 insertions.

MDP SERIES: Sockets available mounted on 15 pin P.C. board.

Quik/Sert SERIES 029 PROTECTIVE CARRIERS AND CONTACTORS FOR ALL STANDARD I.C. FLAT PACKS



Series 029 carriers fit standard I.C. flat-packs, providing fast, simple loading. Barriers between leads give positive separation for 14 flat or preformed leads. Device is locked by positive clip. Carriers also serve as disposable shipping/test containers. Carriers are inserted or removed from contactors with a simple push-pull, one-hand action, and held in place by stainless steel latch covers. Contacts provide uniform low resistance contact. Won't scrape or mar leads. Contactors are available for other carriers, including Model 029-017 for Fairchild carriers, and Model 036-011 for Westinghouse carriers. Model 029-090 provides full support for carriers and excels in life test operation.

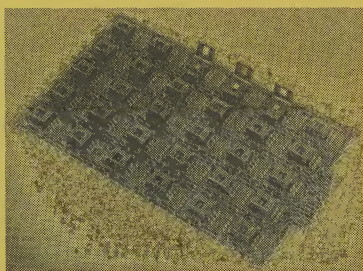
BODY DIELECTRIC: Standard operating temperatures —65°C to 125°C continuous, optional for 150°C or 200°C.

PACKAGES ACCEPTED: $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{8}$ " wide, with up to 14 flat or preformed leads.

CONTACTS: Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms.

CONTACTOR LIFE: Up to 100,000 insertions typical.

Quik/Sert SERIES 030 SOCKET BREADBOARDS FOR "TO", FLAT-PACK AND DUAL-IN-LINE I.C.'s



Barnes Series 030 Breadboards are available in a variety of configurations to accommodate multi-lead "TO" packages, flat pack or dual-in-line integrated circuits. The breadboard/test assemblies permit the rapid interconnection of integrated circuits for circuit evaluation and power testing. Using the boards, the same integrated circuits may be used repeatedly to evaluate commonly used circuit designs.

BOARD CONSTRUCTION: .062" G-10 epoxy glass.

TEMPERATURE RANGE: —65°C to 125°C.

POWER CONNECTIONS: Power, input and output busses run the full length of board with two connections on each buss for each socket position.

EDGE CONNECTORS: Elco Series 5001.

INTERCONNECTIONS: Two alternate designs are available—for hard wiring or plug-in jumpering.

Units designed for power aging

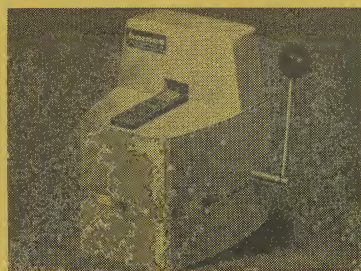
have turret lugs connected to each socket terminal and the power busses for soldered interconnections.

On breadboard units, spring jacks for removable jack cord interconnections are connected through printed wiring to the device pins and busses.

SOCKETS: MF Series for "TO" packages; MD-50 Series for flat-packs; MG style for dual-in-line packages.

SPECIAL BOARDS: Available on order to match your specifications.

Quik/Sert MODEL 037 SEMI-AUTOMATIC HANDLER FOR TESTING ALL STANDARD I.C. FLAT PACKS



The Model 037 Handler was designed to facilitate the rapid testing of flat package integrated circuits in carriers, as well as the new dual-in-line packages. The 037 features quick, easy, semi-automatic handling of packages in

Barnes and all other commonly used carriers, for Quality Control testing, Incoming Inspection, Laboratory Analysis and Special Testing. The unit is foolproof, and designed to include options for further automation, including magazine loading and unloading, and classification sorting.

Cycle rate for the 037 is 1 to 3 seconds. Interchangeable test heads are used, which allow rapid consecutive testing of circuits in various carriers. Test heads are standard Barnes contactors which feature Nickel/gold plated Beryllium copper wiping type contacts.

QUALITY CONTROL: For quick checks on small or large quantities of flat packs.

INCOMING INSPECTION: For the I.C. user requiring in-house quality assurance.

LABORATORY ANALYSIS: A new tool for the engineer in writing device and circuit specs.

SPECIAL TESTING: The quick set-up answer to limited production run problems.

Quik/Sert SERIES MF SOCKETS WITH EXTRA-LARGE ENTRANCES FOR MULTI-LEAD "TO" PACKAGES



Pyramidal entrances permit fast insertion of multi-lead devices, with no lead scraping or deformation. Designed for production, test and breadboarding. Available in 6, 8, 10, 12 and 14 lead arrangements.

STYLES & TERMINALS: Chassis mounting—straight barrel terminals with/without soldering hole; P.C. board mounting—offset wire terminals; carrier mounting on mating base—tapered end pins.

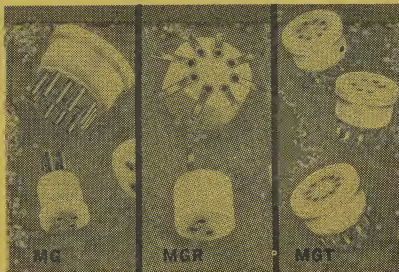
BODY: Glass filled Nylon or Teflon FEP standard. Operating temperature: Nylon to 150°C; Teflon to 200°C.

LEADS ACCEPTED: 0.015" to 0.025" diameters; 0.30" to 1½" lengths.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Resistance less than 0.01 ohms typical.

LIFE: Up to 50,000 insertions typical.

Quik/Sert SERIES MG/MGR/MGT EXTRA-COMPACT TEFLON SOCKETS FOR MULTI-LEAD COMPONENTS



Featuring compact size, insertion ease, rapid mounting and positive lead retention. For transistors, tubes, I.C.'s and modules with 3, 4, 5, 6, 8, 10, 12 or 14 leads. MGR has very low profile above P.C. board.

STYLES & TERMINALS: MG—press fit chassis mounting, straight barrel terminals with/without soldering holes; MGR—dip solder to P.C. board, expanded circle ribbon terminals; MGT—press fit mounting, tab type terminals for dip/wave soldering. Straight or offset terminals.

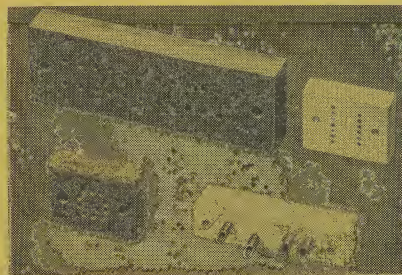
BODY: Teflon TFE for -65°C to 200°C operating range.

LEADS ACCEPTED: 0.015" to 0.025" diameter; ½" minimum length.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Resistance less than 0.01 ohms typical.

LIFE: Up to 50,000 insertions typical.

Quik/Sert SERIES RD/MGX MODULE TEST CONNECTORS FOR THIN FILM OR HYBRID DEVICES



RD and MGX connectors save substantial time in testing printed/welded circuit modules, thin film or hybrid components. Special configurations, sizes and styles can be supplied in any quantity. Wide variety of standard types using grid or special arrangements with a minimum of 0.05" spacing.

STYLES & TERMINALS: RD and MGX—chassis mounting, solder type tubular terminals; MGRX—dip solder to P.C. board, offset ribbon terminals.

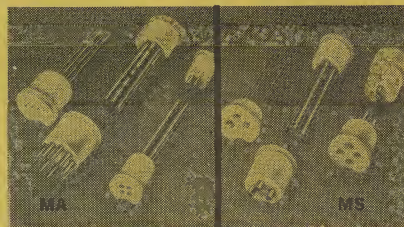
BODY: Phenolic or Teflon TFE for continuous operation from -65°C to 200°C.

LEADS ACCEPTED: 0.015" to 0.040" diameters, 0.08" minimum length.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Resistance less than 0.01 ohms typical.

LIFE: Up to 100,000 insertions typical.

Quik/Sert SERIES MA/MS TEFLON PRESS MOUNTING SOCKETS FOR TRANSISTORS & "TO" CASED I.C.'s



Largest single line of high-quality, long life sockets for TO's, transistors and other miniature components. Also in-line, high frequency, aging rack, P.C. and power transistor sockets. Extremely low capacitance/loss factor. Easy-insertion chamfered entrances. Polarization notch on all sockets.

MOUNTING: Compression fit in round hole or use with mounting saddle. Long or short guide tubes.

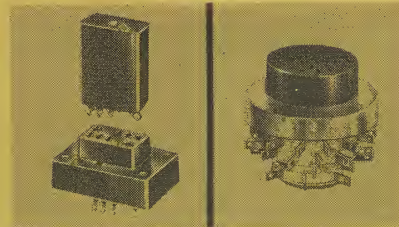
BODY: Teflon TFE for continuous operation from -65°C to 200°C.

LEADS ACCEPTED: 0.015" to 0.025" diameters, ½" minimum length.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Terminal Ni/Au plated brass. Resistance less than 0.01 ohms typical.

LIFE: Up to 100,000 insertions typical.

Quik/Sert RELAY TEST SOCKETS FOR PLUG-IN TESTING OF RELAYS AND OTHER COMPONENTS



For round or crystal can relays, switches, transformers, circuit modules, etc. Special floating contacts assure proper seating, allow for minor irregularities. Choice of single or dual mutually insulated contacts.

TYPES & MOUNTING: More than 300 standard types and configurations. Integrally molded aluminum flange for sturdy mounting.

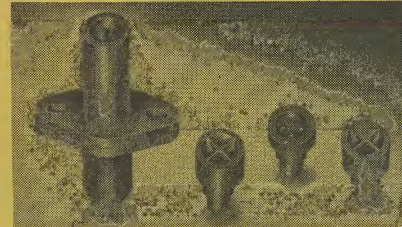
BODY: Vinyl for operation from -25°C to 105°C; Teflon FEP for -65°C to 200°C; Polycarbonate for -35°C to 125°C; Filled Epoxy for -35°C to 125°C.

TERMINALS ACCEPTED: All types of solder-terminals; solder hook, cane, flattened/pierced, straight pins, turrets, etc.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Resistance less than 0.005 ohms typical.

LIFE: Over 200,000 insertions typical.

Quik/Sert SERIES MR SOCKETS WITH INTERCHANGEABLE CAPS FOR KELVIN TESTING OF TRANSISTORS



MR Sockets feature interchangeable caps that quickly and easily snap on a base socket, permitting a wide variety of 3 or 4 lead TO-5 and TO-18 packaged transistors and light/medium stud packages to be tested. Caps are available with large chamfered entrances for rapid insertion.

MOUNTING & TERMINALS: Socket has integral flange for chassis mounting. Terminals are flat tabs pierced for ease of wiring.

BODY: Diallyl-iso-phthalate for operation to 200°C; Silicone resin to 300°C operation.

LEADS ACCEPTED: 0.015" to 0.040" diameters, ⅛" to 1½" lengths.

CONTACTS: Spring temper, wiping type. Nickel/gold plated Beryllium copper. Silicone body has Beryllium nickel contacts. Extremely low resistance.

LIFE: Up to 50,000 insertions typical.

Teflon - DuPont™

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